3661

PATENT

Duplicate Paper

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shinya Adachi

Serial No.: 10/075,208 Art Unit: 3661

Filed: February 14, 2002

Title: METHOD FOR TRANSMITTING LOCATION INFORMATION ON A DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM

Docket No.: 34409

SUPPLEMENTAL PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner for Patents
ATTN: TECHNICAL CENTER 3600
Washington, D.C. 20231

Sir:

Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination.

The application has not received an examination by an Examiner.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Attn: Technical Center 3600, Washington D.C. 20231 on the date indicated below.

Aaron A. Fishman
Name of Attorney for Applicant(s)

November 1, 2002
Date

Signature of Attorney

The following are submitted herewith:

a) A copy of the originally filed Petition to Make Special Under 37 CFR § 1.102(d);

b) A copy of the originally filed statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references;

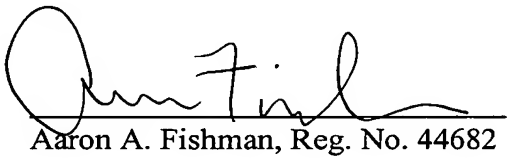
d) Exhibits "A" and "B" which were erroneously omitted from the Petition when it was filed; and

c) A copy of the originally filed Information Disclosure Statement and associated form PTO-1449 (references are not included as they were submitted with originally filed Petition to Make Special).

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,
PEARNE & GORDON LLP

By: 
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Date: November 1, 2002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shinya Adachi et al.

Serial No.: 10/075,208

Filed: February 14, 2002

Title: "METHOD FOR TRANSMITTING LOCATION INFORMATION ON A DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM"

Docket No.: 34409

PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination. The application has not received any examination by an Examiner.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington D.C. 20231 on the date indicated below.

Suzanne B. Gagnon
Name of Attorney for Applicant(s)

August 20, 2002 Suzanne B Gagnon
Date Signature of Attorney

The following are submitted herewith:

a) A check for $130 to cover the petition fee (37 CFR §1.17(h));

b) A statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references; and

c) An Information Disclosure Statement, associated form PTO-1449, and references cited therein.

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,

PEARNE & GORDON LLP

By: 
Suzanne B. Gagnon, Reg. No. 48924

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August 20, 2002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shinya Adachi et al.

Serial No.: 10/075,208

Filed: February 14, 2002

Title: METHOD FOR TRANSMITTING LOCATION INFORMATION ON A DIGITAL MAP, APPARATUS FOR IMPLEMENTING THE METHOD, AND TRAFFIC INFORMATION PROVISION/RECEPTION SYSTEM

Docket No.: 34409

STATEMENT AND DISCUSSION REGARDING PREEXAMINATION SEARCH, AND DISCUSSION OF MOST RELEVANT UNCOVERED REFERENCES IN SUPPORT OF PETITION TO MAKE SPECIAL

Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicant hereby submits the following statement and discussion:

PREEXAMINATION SEARCH

A preexamination search was conducted, in compliance with MPEP 708.02, VIII. Special Examining Procedure For Certain New Applications – Accelerated Examination.

An initial search covered the following International Patent Classifications:

G 08 G - Traffic control systems (search inclusive of all subclasses),

G O9 B - Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models; planetaria; globes; maps; diagrams (search inclusive of all subclasses), and

G 01 C - Measuring distances, levels, or bearings; surveying; navigation; gyroscopic instruments; photogrammetry (search inclusive of all subclasses).

This search area covered 12,004 publications.

Within this search area, the search was narrowed to publications containing various combinations of the following keywords in their abstracts: "road," "traffic," "map," "atlas," "transportation," "car," "vehicle," "position," "location," "reference," "route," "calculation," and "information." A search was also conducted within the above-mentioned search area being limited to publications in which "BOSCH" is listed as the patentee.

A list of the actual search sets is enclosed herewith as "Exhibit A". A total of 120 potentially relevant references were discovered in this search.

A further search was conducted covering the following International Patent Classifications:

G 08 G 001/0969 - Traffic control systems for road vehicles . Arrangements for giving variable traffic instructions (indicating arrangements for variable information by selection or combination of individual elements . . provided with indicators in which a mark progresses showing the time elapsed, e.g. of green phase . . . Systems involving transmission of navigation instructions to the vehicle . . . . having a display in the form of a map,

G 09 B 029/00 - Maps; Plans; Charts; Diagrams, e.g. route diagram,

G 09 B 029/10 - Map spot or co-ordinate position indicators; Map-reading aids, and

G 01 C 021/00 - Navigation; Navigational instruments not provided for in preceding groups.

This second search area covered 11,133 publications.

Within this second search area, the search was narrowed using various keywords and patentees. A detailed explanation of this search is enclosed herewith as "Exhibit B."

Prior to these searches, applicant was aware of additional references, which are cited in an Information Disclosure Statement (IDS).

DISCUSSION OF MOST RELEVANT REFERENCE(S)

The party conducting the search has determined that the following uncovered references appears to be the most relevant to the subject invention: English abstract of WO 00/08616 (hereinafter "'616"), English abstract of WO 01/18769 A1 (hereinafter "'769"), and US 6,324,468 (hereinafter "'468"). Thus, these references will be discussed with regard to patentability of the present claims. Each of these references is cited in the IDS.

The present invention is directed as in claim 1 to a location information transmission method for reporting on-road location on a digital map and as in claim 4 to a location information transmission apparatus for exchanging information about the on-road location on a digital map.

The method of the present invention, as set forth in independent claim 1, comprises the steps of:

(1) an information provider transmitting on-road location information by using (a) road shape data including the on-road location information consisting of a string of coordinates representing the road shape of a road section having a length that depends on the situation and (b) relative data indicating the on-road location in the road section; and

(2) a party receiving the on-road location information, performing shape matching to identify the road section on the digital map and using the relative data to identify the on-road location in the road section.

The apparatus of the present invention, as set forth in independent claim 4, comprises:

(1) the apparatus at an information provider comprises a location information converter for converting transmit on-road location information to (a) road shape data including the on-road location consisting of a string of coordinates representing the road shape of a road section having a length that depends on the situation and (b) relative data indicating the on-road location in the road section; and

(2) the apparatus at a party receiving the on-road location information comprises a shape matching section for performing shape matching by using the road shape data, identifying said road section on a digital map and identifying the on-road location in the road section by using the relative data.

The '616 abstract discloses a device for coding and decoding of a location in a traffic lane network where the information is transmitted from a transmitter to a receiver. According

to the '616 abstract, the code contains several pairs of coordinates representing the coordinates of the coded location and at least one additional point. When decoding, positions within the tolerance range for the pairs of coordinates are determined from a database, then positions on the same traffic lane are selected from the tolerance range positions, and finally the location within the tolerance range of a specific pair of coordinates from the traffic lane positions is defined as the decoded location.

The '616 abstract does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '616 abstract also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '616 abstract.

The '769 abstract discloses a method for transmitting road traffic data of transmitting coordinates of locations that are at least partially on traffic routes stored in a database and that contain specific characteristics of parts of the traffic route. The '769 abstract does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '769 abstract also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '769 abstract.

The '468 patent discloses a central traffic station that transmits route information to a vehicle. According to the '468 patent, the route information consists of turning points, which can be transmitted in the form of geographic coordinates and which are displayed on a terminal unit in the vehicle. The '468 patent does not disclose a string of coordinates representing the road shape of a road section having a length that depends on the situation as set forth in claims 1 and 4. The '468 patent also does not disclose performing shape matching to identify the road section on a digital map as recited in claim 1 or a shape matching section for performing shape matching by using the road shape data recited in claim 4. Since each of the limitations of the claim are not disclosed by the prior art, claims 1 and 4 and their corresponding dependent claims are patentable over the '468 patent.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34409.

Respectfully submitted,

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Date: 8-20-2002

EXHIBIT "A"

<List of Retrieval Style>

Set No.	Items	Term	Descriptions
S01	1,729	IPC	G08G?
S02	4,768	IPC	G09B?
S03	5,575	IPC	G01C?
S04	12,004	logical expression	S01+S02+S03
S05	5,214	abstract	road
S06	4,825	abstract	traffic
S07	4,617	abstract	map
S08	38	abstract	atlas
S09	4,525	abstract	transportation
S10	7,931	abstract	car
S11	79,316	abstract	vehicle
S12	99,854	logical expression	S05+S06+S07+S08 +S09+S10+S11
S13	4,617	abstract	map
S14	38	abstract	atlas
S15	242,671	abstract	position
S16	47,604	abstract	location
S17	49,609	abstract	reference
S18	3,850	abstract	route
S19	5,432	abstract	calculation
S20	80,369	abstract	information
S21	395,367	logical expression	S13+S14+S15+S16 +S17+S18+S19+S20
S22	9	logical expression	(S01+S02+S03) * ((S05+S18) * (S07+S08) * (S10+S11)) *S15*S16
S23	21	logical expression	(S01+S02+S03) * ((S05+S18) * (S10+S11)) *S15*S16
S24 (List ①)	32	logical expression	(S01+S02+S03) * (S05+S18) *S15*S16
S25	7,721	patentee	BOSCH
S26 (List ②)	58	logical expression	(S01+S02+S03) *S25
S27 (List ③)	30	logical expression	(S01+S02+S03) *S06* S20*S16

EXHIBIT "B"

Search Report

Subject : Patent Search For Technologies of Navigation and Location Reference

【Subject】

Patent Search For Technologies of Navigation and Location Reference

【Term】

1993.01.01 ～ Derwent week 200242

【Data Base】

Dialog Derwent World Patents Index (DWPI)

【Field】

Whole recorded fields of the Database

【Contents】

We extract the whole technology regarding AGORA Project, especially, macro-matching or map (pattern) matching of map data, which are technologies for making a plurality of map data relate to and connect with each other. Elementally technologies are extracting similar figures, checking error matching, checking error positioning, map matching, or such.

※ We searched within a field connected to "road", "traffic", and "map" included in the above mentioned technical field.
※ Other keywords were applied to the search without limiting them to the above three keywords.

【Objective Manufactures for Search】

ERTICO, NavTech, TeleAtlas, move, BOSCH, Blaupunkt, Siemens VDO
(DDG, Traffic master, Mannesmann)

※ We started form "patent classification" so as to search widely regarding the important manufactures written in bold strokes.
※ The manufactures mentioned in the parenthesis were also searched with the keywords carefully.
※ Other manufactures were searched with the keywords.

【Ways for Search】

We searched the technical fields along with the following retrieval style, output patent numbers of the objective sets, and investigated each reference. We also extracted references disclosing similar or relative arts to the technologies and evaluate their relevance.

【Retrieval Style】

Set	Items	Description
S1	4940	IC='G08G-001/0969'
S2	3586	IC='G09B-029/00'
S3	3804	IC='G09B-029/10'
S4	8762	IC='G01C-021/00'
S5	11133	S1+S2+S3+S4
S6	8679	S5*(ROAD OR TRAFFIC OR MAP OR ATLAS OR TRANSPORTATION OR CAR OR VEHICLE)
S7	507	(MAP OR ATLAS OR POSITION OR LOCATION) (W) MATCH?
S8	5097	(MAP OR ATLAS OR POSITION OR LOCATION) (W) ADJUST?
S9	2960	(MAP OR ATLAS OR POSITION OR LOCATION) (W) CORRECT?
S10	164	ROUTE (W) CALCULATION OR ROUTING (W) CALUCURATION OR PATH (W) CALCULATION
S11	260	S6*(S7+S8+S9+S10)
S12	3	FAULT (W) MATCH? OR FAULT (W) ADJUST?
S13	129	ERROR (W) MATCH? OR ERROR (W) ADJUST?
S14	10597	ERROR (W) CORRECT?
S15	17	S6*(S12+S13+S14)

S16	17328	RELATIVE(W)POSITION?
S17	39	(SIMILAR+ANALOGOUS+ANALOGICUS+HOMOTHETIC)(W)FIGURE
S18	81	S6*(S16+S17)
S19	37	LOCATION(W)REFERENC?
S20	1119	S6*(POINT+LINE?+ROAD?)*(CHARACTER?+SHAPE?+GEOMETRY+TOPOLOGY +TYPE+FEATURE+DIRECTION)
S21	0	S6*(ILOC OR GOODLANE OR PIVOT(W)POINT)
S22	754	(POSITION? OR LOCATION?)*S20
S23	1074	S11+S15+S18+S19+S22
S24	4104686	PC=JP*NC=001
S25	392	S23 NOT S24
S26	218	PC=(EP+WO)*S25
S27	0	PA=ERTICO
S28	4	PA='NAVTEC'+PA='NAVTEC INC'+PA='NAVTEC INC (NAVT-N)'+PA='NAVTECH' +PA='NAVTECH CO LTD'+PA='NAVTECH CO LTD (NAVT-N)'
S29	1	PA='TELEATLAS'+PA='TELEATLAS INT BV'+PA='TELEATLAS INT BV (TELE-N)'
S30	70	PA=MOVE
S31	32265	PA=BOSCH
S32	875	PA=BLAUPUNKT
S33	72701	PA=SIEMENS
S34	102433	S27+S28+S29+S30+S31+S32+S33
S35	14	PA=DDG
S36	0	PA=TRAFFIC MASTER
S37	9151	PA=MANNESMANN
S38	9164	S35+S36+S37
S39	144	S6*S34
S40	7	S6*S38*(S7+S8+S9+S10+S12+S13+S14+S16+S17+S22)
S41	144	S39 NOT S24
S42	7	S40 NOT S24
S43	500	S25+S41+S42
S44	299	PC=(EP+WO)*S43

※ We output and investigated the references in the underlined set.

【Result of Search】

As a result of the search, we extracted 134 patent families in total. If a patent publication is written in German or French, we referred to a corresponding publication written in Japanese or English, which is belonging to the family member of the parent publication in order to investigate its details.

Please refer to the attached list of extracted patents.
In the list, relevance is expressed as follows:

A	◎	: Similar
B	○	: Highly relevant
C	△+	: Low relevant
D	△-	: Lower relevant but having same background

↑

In attached FD, expressed as above.

(4)

Related Art for Navigation and Location Reference

AN	Title	Abstract	PA	IN	Patent No	Kind	Date	Relevance	Applicat No	Kind
1	Method and structure for operating a navig	WO 200217268 A1 N	SIEMENS AG	KLEIN B&ZEH	WO 200217268	A1	20020228	△-	WO 2001DE2917	A
					DE 10041800	A1	20020321		DE 1041800	A
2	Displaying route, especially for vehicle r	WO 200214788 A1 N	BOSCH GMBH R	GEISLER T&H	WO 200214788	A1	20020221	○	WO 2001DE2713	A
					DE 10039235	A1	20020228		DE 1039235	A
3	Retrieval method for digital map section a	WO 200216874 A1 N	SIEMENS AG	DELLING T&F	WO 200216874	A1	20020228	○	WO 2000DE2907	A
4	Television programme broadcast system inc	WO 200150763 A1 N	THOMSON MULT	CARBONNEL L	WO 200150763	A1	20010712	△-	WO 2000FR3740	A
					FR 2809837	A1	20011207		FR 20002259	A
					AU 200130310	A	20010716		AU 200130310	A
					FR 2809836	A1	20011207		FR 9916744	A
5	Coding, decoding and/or transmission of l	DE 10033193 A1 NO	BOSCH GMBH R	HAHLWEG C&H	DE 10033193	A1	20020117		DE 1033193	A
					WO 200204894	A1	20020117	○	WO 2001DE2496	A
					AU 200176311	A	20020121		AU 200176311	A
6	Information and control system for vehicle	DE 10034499 A1 NO	BOSCH GMBH R	HOLZE H&IBA	DE 10034499	A1	20020124		DE 1034499	A
					WO 200206772	A1	20020124	△-	WO 2001DE2570	A
7	Digital road map for automobile navigation	EP 1167923 A2 NOV	BOSCH GMBH R	HAHLWEG C&	EP 1167923	A2	20020102		EP 2001112685	A
					DE 10030896	A1	20020103		DE 1030896	A
					JP 2002081950	A	20020322	○	JP 2001189810	A
8	Selecting map information for navigation d	DE 10029198 A1 NO	BOSCH GMBH R	BUSSE M&DRA	DE 10029198	A1	20011220		DE 1029198	A
					WO 200198734	A1	20011227	△	WO 2001DE2204	A
9	Method and navigational instrument for det	DE 10021373 A1 NO	SIEMENS AG	MOSIS T&	DE 10021373	A1	20011108		DE 1021373	A
					WO 200184081	A1	20011108	○	WO 2001DE1443	A
10	Navigation system for motor vehicles, sets	EP 1150101 A1 NOV	INCREMENT P	KAZAMA M&N	EP 1150101	A1	20011031		EP 2001303851	A
					US 20010037177	A1	20011101		US 2001842012	A
					JP 2001311624	A	20011109	○	JP 2000131640	A
11	Navigation device for satellite-based vehi	EP 1102036 A1 NOV	TOYOTA JIDOS	SUGIMOTO H&	EP 1102036	A1	20010523		EP 2000124937	A
					JP 2001141492	A	20010525	○	JP 99328430	A
12	Navigational information display method fo	US 6308132 B1 NOV	HONEYWELL IN	SNYDER M&W	US 6308132	B1	20011023		US 2000592326	A
					WO 200196812	A2	20011220	△	WO 2001US18775	A
13	Navigation system for vehicles, has neura	DE 10004163 A1 NO	BOSCH GMBH R	DRAEGER G&H	DE 10004163	A1	20010802		DE 1004163	A
					EP 1122517	A2	20010808		EP 2001100872	A
					JP 2001249021	A	20010914	○	JP 200123960	A
14	Data output method for automobile driver informa	WO 200175838 A1 N	BOSCH GMBH ROBERT (E		WO 200175838	A1	20011011	◎	WO 2001DE1247	A
					DE 10016674	A1	20011018		DE 1016674	A
15	Map information changing device for motor	EP 1126245 A2 NOV	MATSUSHITA E	ATA T&HAMAD	EP 1126245	A2	20010822		EP 2001102855	A
					US 20010016796	A1	20010823		US 2001781152	A
					JP 2001307121	A	20011102	○	JP 200132153	A
16	Intersection display method for map displa	EP 1122626 A1 NOV	MATSUSHITA E	ATA T&HAMAD	EP 1122626	A1	20010808		EP 2001102141	A
					US 20010012981	A1	20010809		US 2001774561	A
					JP 2001215129	A	20010810	○	JP 200025480	A
17	Operating navigation system, involves tra	DE 19963766 A1 NO	BOSCH GMBH R	BINNEWIES (	DE 19963766	A1	20010705		DE 1063766	A
					WO 200150089	A1	20010712	△	WO 2000DE3878	A
					EP 1159585	A1	20011205		EP 2000987078	A
									WO 2000DE3878	A
18	Operating navigation system, involves tra	DE 19963765 A1 NO	BOSCH GMBH R	BINNEWIES (	DE 19963765	A1	20010705		DE 1063765	A
					WO 200150437	A1	20010712	△	WO 2000DE3877	A
19	Encoding and decoding objects in road net	DE 10009149 A1 NO	BOSCH GMBH R	HAHLWEG C&H	DE 10009149	A1	20010308		DE 1009149	A
					WO 200118769	A1	20010315	○	WO 2000DE2701	A
					AU 200076408	A	20010410		AU 200076408	A

AN	Title	Abstract	PA	IN	Patent No	Kind	Date	Relevance	Applicat No	Kind
20	Computer-assisted processing of structure	WO 200156752 A Th	SIEMENS AG	FEITEN W&RE	WO 200156752	A2	20010809	△	WO 2001DE412	A
					DE 10004409	A1	20010906		DE 1004409	A
21	Road network related data providing metho	EP 1111336 A1 NOV	NAVIGATION T	BECHTOLSHE	EP 1111336	A1	20010627		EP 2000310804	A
					JP 2001227978	A	20010824	△	JP 2000387632	A
22	Data storing method in geographic database	EP 1098168 A2 NOV	NAVIGATION T	BOYLAN A M&	EP 1098168	A2	20010509		EP 2000302881	A
					JP 2001201358	A	20010727	○	JP 2000326025	A
23	Encoding and decoding road network objects, invo	DE 19942522 A1 NO	BOSCH GMBH ROBERT (E		DE 19942522	A1	20010308		DE 1042522	A
					WO 200118768	A1	20010315	◎	WO 2000DE3056	A
					EP 1214697	A1	20020619		EP 2000963961	A
									WO 2000DE3056	A
24	Image processing apparatus for navigating	EP 1074960 A1 NOV	PIONEER CORP	KASHIWAZAK	EP 1074960	A1	20010207		EP 2000115939	A
					JP 2001034899	A	20010209	△	JP 99211273	A
25	Navigational information transmission prod	DE 19930796 A1 NO	BOSCH GMBH R	DRAEGER G&H	DE 19930796	A1	20010111		DE 1030796	A
					AU 200066829	A	20010122		AU 200066829	A
					WO 200102806	A1	20010111	△+	WO 2000DE2140	A
					EP 1198696	A1	20020424		EP 2000954304	A
									WO 2000DE2140	A
26	Adapter card for navigation device has int	DE 19934837 A1 NO	BOSCH GMBH R	RYCHLAK S&	DE 19934837	A1	20010125		DE 1034837	A
					WO 200108086	A1	20010201	△-	WO 2000DE2416	A
					EP 1116173	A1	20010718		EP 2000960312	A
									WO 2000DE2416	A
27	Vehicle navigation system in which the sca	DE 19926367 A1 NO	BOSCH GMBH R	DUCKECK R&	DE 19926367	A1	20001214		DE 1026367	A
					WO 200077474	A1	20001221	△-	WO 2000DE1814	A
					AU 200064244	A	20010102		AU 200064244	A
					EP 1192418	A1	20020403		EP 2000951206	A
									WO 2000DE1814	A
28	Route guidance device for motor vehicle	WO 200050845 A1 N	XANAVI INFOR	SATO H&	WO 200050845	A1	20000831		WO 2000JP1111	A
					JP 2000241182	A	20000908	○	JP 9947945	A
					EP 1162432	A1	20011212		EP 2000905356	A
									WO 2000JP1111	A
29	User adapted position dependent informatic	WO 200049530 A1 N	TELIA AB (TE	CHRISTIANSS	WO 200049530	A1	20000824	○	WO 2000SE306	A
					SE 9902487	A	20000818		SE 992487	A
					SE 514052	C2	20001218		SE 992418	A
					SE 9902417	A	20000818		SE 992417	A
					SE 9902110	A	20000818		SE 992110	A
					EP 1196865	A1	20020417		EP 2000908202	A
									WO 2000SE306	A
30	Determining the position of a vehicle invo	DE 19915212 A1 NO	BOSCH GMBH R	HONKOMP D&K	DE 19915212	A1	20001005		DE 1015212	A
					EP 1043600	A1	20001011		EP 2000105755	A
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					DE 20022813	U1	20020516		DE 2000U2022813	U
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32	Method of predicting the course of a vehic	WO 200033151 A1 N	BOSCH GMBH R	LICHTENBERG	WO 200033151	A1	20000608	△	WO 99DE3219	A
					DE 19855400	A1	20000615		DE 1055400	A
					EP 1135274	A1	20010926		EP 99957863	A
									WO 99DE3219	A
					KR 2001099826	A	20011109		KR 2001706779	A
33	A mobile body map matching apparatus for e	EP 1022578 A2 NOV	MATSUSHITA E	SHIMADA T&	EP 1022578	A2	20000726		EP 2000300411	A
					JP 2000213948	A	20000804	○	JP 9912533	A
34	Stereoscopic map-display and navigation fa	EP 1024467 A2 NOV	HITACHI LTD	ENDO Y&HIR	EP 1024467	A2	20000802		EP 2000101242	A
					JP 2000221876	A	20000811	△	JP 9922616	A
					KR 2000062510	A	20001025		KR 20004455	A
35	Vehicle navigation method uses routing alg	WO 200038130 A1 N	BOSCH GMBH R	HESSING B&	WO 200038130	A1	20000629	△	WO 99DE3962	A
					DE 19859080	C1	20000831		DE 1059080	A
					EP 1141910	A1	20011010		EP 99964431	A
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36	In-vehicle driver information-navigation s	WO 200022593 A1 N	SIEMENS AUT	ASHER H&BR	WO 200022593	A1	20000420	△	WO 99US3614	A
					AU 9933028	A	20000501		AU 9933028	A
					EP 1121677	A1	20010808		EP 99970492	A
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37	Navigation system for vehicle, aircraft, d	DE 19847730 A1 NO	BOSCH GMBH R	GAERTNER U&	DE 19847730	A1	20000420		DE 1047730	A
					WO 200023766	A1	20000427	△	WO 99DE2205	A
					EP 1046019	A1	20001025		EP 99947223	A
									WO 99DE2205	A
38	Data compression method for compressing ge	EP 987823 A2 NOVE	NAVIGATION T	FRIEDERICH	EP 987823	A2	20000322		EP 99306714	A
					JP 2000101441	A	20000407	△	JP 98377973	A
					US 20010043745	A1	20011122		US 98153996	A
					US 6393149	B1	20020521		US 98153996	A
39	Aircraft based integrated GPS-inertial nav	WO 200007134 A1 N	LITTON SYSTE	HUDDLE J R&	WO 200007134	A1	20000210	△	WO 99US16495	A
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					EP 1019862	A1	20000719		EP 99935777	A
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40	Method to determine route from street net	EP 979987 A2 NOVE	BOSCH GMBH R	FABIAN T&	EP 979987	A2	20000216		EP 99111285	A
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					JP 2000018960	A	20000121		JP 98184248	A
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42	Storage of digital street map for navigat	DE 19829801 A The	SIEMENS AG (	ANDERLIK B&	DE 19829801	A1	20000105		DE 1029801	A
					WO 200002011	A2	20000113	△	WO 99DE1987	A
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43	Agricultural vehicle with arrangement for	EP 970595 A1 NOVE	CLAAS SELBST	QUINCKE G&	EP 970595	A1	20000112		EP 99112635	A
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44	Network accessible door to door direction	WO 9960339 A1 NOV	ZIP2 CORP (Z	HO E K S&	WO 9960339	A1	19991125	△	WO 99US11117	A
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45	Navigation system e.g. for determining cur	WO 9951940 A1 NOV	MAGELLAN DI	KARUNANIDH	WO 9951940	A1	19991014	◎	WO 99US7316	A
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46	Generating method of location reference in	WO 9956264 A1 NOV	TELE ATLAS D	DORENBECK C	WO 9956264	A1	19991104	○	WO 99EP2820	A
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					JP 2002513139	W	20020508	◎	WO 99DE1145	A
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48	Data apparatus for a motor vehicle for a v	WO 9947893 A1 NOV	BOSCH GMBH R	OBERLAENDER	WO 9947893	A1	19990923	△	WO 99DE710	A
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49	Method for issuing traffic information to	WO 9946562 A1 NOV	BOSCH GMBH R	KERSKEN U&H	WO 9946562	A1	19990916		WO 99DE632	A
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50	Geographic data base for navigational app	EP 943895 A2 NOVE	NAVIGATION T	ASHBY R A&E	EP 943895	A2	19990922		EP 99301931	A
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51	On-board navigation device for automobile	WO 9939161 A The	SIEMENS AG	SCHUPFNER M	WO 9939161	A1	19990805		WO 99DE153	A
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52	Navigation method, especially for motor ve	EP 933745 A2 NOVE	NOKIA MOBILE	HAKALA H&KA	EP 933745	A2	19990804		EP 99100281	A
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					JP 11271083	A	19991005	△	JP 9921635	A
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53	Navigation unit for motor vehicle	DE 19748127 A1 NO	BOSCH GMBH R	KREFT P&	DE 19748127	A1	19990506		DE 1048127	A
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55	Vehicle information system for guiding veh	WO 9909374 A2 NOV	SIEMENS CORP	ASHER H&BRO	WO 9909374	A2	19990225		WO 98US17237	A
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57	Navigation system for detecting current po	EP 875877 A The n	PIONEER ELEC	HASHIDA M&	EP 875877	A2	19981104		EP 98107642	A
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58	Satellite location device for road vehicle	WO 9845724 A The	BOSCH GMBH R	BODE F&TANN	WO 9845724	A1	19981015		WO 98DE981	A
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59	Navigation apparatus e.g. for vehicle, aer	EP 863381 A The a	PIONEER ELEC	HASHIDA M&	EP 863381	A2	19980909		EP 98104046	A
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60	Method for calibrating differential scale	WO 9836244 A The	MOTOROLA INC	GEIER G J&	WO 9836244	A2	19980820		WO 97US23048	A
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61	Transmitting recommended route in traffic	DE 19753170 A The	MANNESMANN A	VIEWEG S&	DE 19753170	A1	19980618		DE 1053170	A
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63	Navigation device with preparation of road	WO 9823918 A A na	TOYOTA JIDOS	OKADA A&	WO 9823918	A1	19980604		WO 97JP4295	A
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64	Map database for navigation system - manag	EP 848232 A The i	XANAVI INFOR	NOMURA T&	EP 848232	A2	19980617		EP 97310076	A
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65	More accurate position determining method	EP 844462 A The m	ZEXEL CORP	OSHIZAWA H&	EP 844462	A2	19980527		EP 97309419	A
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66	Vehicle positioning system using satellite	DE 19645209 A The	BOSCH GMBH R	KREFT P&	DE 19645209	A1	19980507		DE 1045209	A
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67	Location coding device for traffic network transm	DE 19835051 A1 NO	BOSCH GMBH ROBERT (E		DE 19835051	A1	20000210		DE 1035051	A
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68	Method of providing manoeuvre indication t	EP 840269 A The m	ZEXEL CORP	DESAI S&TAN	EP 840269	A1	19980506		EP 97308690	A
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					KR 2001029539	A	20010406		KR 99702394	A
70	Method of automatically calibrating displa	DE 19637616 A The	BOSCH GMBH R	KREFT P&	DE 19637616	A1	19980319		DE 1037616	A
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71	Cartographic data reception and display de	WO 9805019 A The	SIEMENS AG	SCHOENBAUER	WO 9805019	A1	19980205	△	WO 97DE1377	A
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72	Navigation module for vehicle - has unit f	DE 19614940 A The	BOSCH GMBH R	SCHREINER J	DE 19614940	A1	19971023		DE 1014940	A
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74	Navigation device for vehicle - has data s	EP 779498 A The n	AISIN AW CO	HIYOKAWA T&	EP 779498	A2	19970618		EP 96119289	A
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76	Map indicator for producing route guidance	EP 766217 A The m	AISIN AW CO	HAYASHI S&	EP 766217	A2	19970402		EP 96115646	A
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77	Vehicle navigation appts. that performs rc	EP 751376 A The a	AISIN AW CO	HAYASIDA K&	EP 751376	A2	19970102		EP 96110401	A
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80	Current position calculating system for ve	EP 747668 A The s	XANAVI INFOR	SATO H&	EP 747668	A2	19961211		EP 96109026	A
					JP 8334364	A	19961217	◎	JP 95143567	A
					KR 97002266	A	19970124		KR 9620475	A
					US 5839087	A	19981117		US 96663757	A
					KR 218213	B1	19990901		KR 9620475	A
					EP 747668	B1	20020403		EP 96109026	A
					DE 69620300	E	20020508		DE 620300	A
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81	In vehicle road data information and route	WO 9635199 A The	BOSCH GMBH R	GOSS S&KELL	WO 9635199	A1	19961107		WO 96DE698	A
					DE 19516476	A1	19961107		DE 1016476	A
					EP 769181	A1	19970423		EP 96910905	A
									WO 96DE698	A
					JP 10503026	W	19980317	△	JP 96532914	A
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82	In vehicle road traffic and navigation sys	WO 9635198 A The	BOSCH GMBH R	GOSS S&KELL	WO 9635198	A1	19961107		WO 96DE691	A
					DE 19516477	A1	19961107		DE 1016477	A
					EP 769180	A1	19970423		EP 96909069	A
									WO 96DE691	A
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									WO 96DE691	A
					US 5933094	A	19990803		WO 96DE691	A
									US 97765501	A
83	System for vehicle odometer correction for	EP 738878 A The s	XANAVI INFOR	SATO H&	EP 738878	A2	19961023		EP 96106195	A
					JP 8292040	A	19961105	○	JP 9597197	A
					US 6061627	A	20000509		US 96635115	A
					KR 275189	B	20001215		KR 9612100	A
84	Current position calculating system for co	EP 738877 A The s	XANAVI INFOR	SATO H&	EP 738877	A2	19961023		EP 96105567	A
					JP 8292044	A	19961105	◎	JP 9597201	A
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					US 5899954	A	19990504		US 96629853	A
					KR 231283	B1	19991201		KR 9612099	A
85	Error correction device for aircraft magne	EP 737866 A The d	EUROCOPTER F	ASSOUS E C&	EP 737866	A1	19961016		EP 96400438	A
					FR 2732773	A1	19961011		FR 954241	A
					US 5682335	A	19971028	△-	US 96631703	A
86	Destination guidance of vehicle on travel	DE 19531822 A The	MANNESMANN A	ALBRECHT U&	DE 19531822	A1	19960411		DE 1031822	A
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					EP 715749	A1	19960612		EP 95921094	A
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									JP 96503761	A
					US 5908466	A	19990601		US 95494532	A
					EP 715749	B1	20020417		EP 95921094	A
									WO 95IB509	A
					DE 69526410	E	20020523		DE 626410	A
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88	Route selector and monitor for motor vehic	DE 4415993 A The	BOSCH GMBH R	KREFT P&	DE 4415993	A1	19951109		DE 4415993	A
					WO 9530881	A1	19951116		WO 95DE536	A
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					RU 2151379	C1	20000620		WO 95DE536	A
									RU 96119778	A
					EP 759151	B1	20010103		EP 95915800	A
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					DE 59508940	G	20010208		DE 508940	A
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89	Location and navigation appts. with satel	DE 4332945 A The	BOSCH GMBH R	KREFT P&	DE 4332945	A1	19950330		DE 4332945	A
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									JP 95510043	A
					EP 721570	B1	19980708		EP 94925354	A
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					DE 59406424	G	19980813		DE 506424	A
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					ES 2118427	T3	19980916		EP 94925354	A
					US 5995023	A	19991130		WO 94DE1036	A
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					JP 8502591	W	19960319	◎	WO 94US7197	A
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					EP 664040	B1	20000223		EP 94931731	A
									WO 94US7197	A
					DE 69423090	E	20000330		DE 623090	A
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91	Locating mobile stations in digital teleph	SE 500769 B An ad	TELIA AB (TE	OLSSON B&	SE 500769	B	19940829		SE 932140	A
					EP 631453	A2	19941228		EP 94850095	A
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					US 5564079	A	19961008	△+	US 94251366	A
					EP 631453	B1	20011219		EP 94850095	A
					DE 69429472	E	20020131		DE 629472	A
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92	Determination of current vehicle position	WO 9416504 A The	ZEXEL CORP	KAO W&	WO 9416504	A1	19940721		WO 94US88	A
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					EP 678228	A1	19951025		EP 94906016	A
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					JP 8502827	W	19960326	△	JP 94516153	A
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					AU 683240	B	19971106		AU 9459903	A
					CA 2150942	C	19990706		CA 2150942	A
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93	Navigation appts mounted on road vehicle w	EP 607654 A The c	PIONEER ELEC	ODAGAWA S&	EP 607654	A2	19940727		EP 93308303	A
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					DE 69313812	E	19971016		DE 613812	A
									EP 93308303	A
					US 5742923	A	19980421		US 93137267	A
					JP 3157923	B2	20010423	◎	JP 92281252	A
94	Map matching appts. for vehicle navigation	EP 593256 A The n	PIONEER ELEC	KUWAHARA S&	EP 593256	A1	19940420		EP 93308110	A
					US 5442559	A	19950815		US 93132826	A
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					EP 664007	A1	19950726		EP 93922017	A
									WO 93GB2071	A
					EP 664007	B1	19970326		EP 93922017	A
									WO 93GB2071	A
					DE 69309295	E	19970430		DE 609295	A
									EP 93922017	A
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96	Traffic radio receiver for optimum route c	DE 4208277 A The	BOSCH GMBH R	BRAEGAS P&	DE 4208277	A1	19930916		DE 4208277	A
					WO 9318495	A1	19930916		WO 93DE145	A
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97	Velocity coefficient correction for vehic	EP 544403 A The n	MATSUSHITA E	SHIBATA A&S	EP 544403	A1	19930602		EP 92309692	A
					CA 2081185	A	19930426		CA 2081185	A
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					DE 69214098	E	19961031		DE 614098	A
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98	Location detection appts. with overspeed	EP 543543 A The a	SUMITOMO ELE	MATSUZAKI S	EP 543543	A1	19930526		EP 92310198	A
					US 5337245	A	19940809		US 92970075	A
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99	High accuracy sensor system for on-vehicle	WO 9309509 A The	MOTOROLA INC	BARNEA M&HA	WO 9309509	A1	19930513		WO 92US7870	A
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					EP 601037	A1	19940615		EP 92918607	A
									WO 92US6442	A
					AU 653257	B	19940922		AU 9224926	A
					JP 7504971	W	19950601		WO 92US6442	A
									JP 93505183	A
					EP 601037	B1	20000517		EP 92918607	A
									WO 92US6442	A
					DE 69231061	E	20000621		DE 631061	A
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101	Global positioning system for vehicle nav	EP 527558 A The G	PIONEER ELEC	ODAGAWA S&	EP 527558	A1	19930217		EP 92306331	A
					US 5276451	A	19940104		US 92911109	A
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					JP 2981025	B2	19991122	△	JP 91168015	A
					JP 3076088	B2	20000814	△	JP 91168016	A
					JP 3126751	B2	20010122	△	JP 91168017	A
102	Town map representation for motorist navig	DE 4111147 A The	BOSCH GMBH R	BRUNKE H&TB	DE 4111147	A	19921008		DE 4111147	A
					WO 9217867	A1	19921015	△	WO 92DE212	A
103	Motor vehicle guidance and navigation syst	DE 4039887 A The	BOSCH GMBH R	BRAEGAS P&S	DE 4039887	A	19920617		DE 4039887	A
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104	Land vehicle navigation apparatus - disp	WO 9204683 A The	MOTOROLA INC	LEFEBVRE R	WO 9204683	A	19920319		WO 91US5968	A
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					FR 2667423	A1	19920403		FR 9011993	A
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					JP 4305684	A	19921028	○	JP 91249607	A
					EP 478438	B1	19951213		EP 91402534	A
					DE 69115417	E	19960125		DE 615417	A
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106	Geographical interactive automated mapping	WO 9202891 A The	GEORESEARCH	KONG A C F&	WO 9202891	A	19920220			
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									WO 91US5629	A
					US 5214757	A	19930525	○	US 90564018	A
									US 92953761	A
107	Vehicle position determination method - me	EP 471405 A Vehic	PHILIPS GLOB	HERMANS H (	EP 471405	A	19920219		EP 91202018	A
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					EP 471405	B1	19961120		EP 91202018	A
					DE 69123199	E	19970102		DE 623199	A
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					KR 185581	B1	19990415		KR 9113762	A
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108	Navigation apparatus for driver, etc. - di	WO 9102943 A Upon	TSUYUKI T (T	TSUYUKI T&	WO 9102943	A	19910307			
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									WO 90JP1064	A
					AU 644808	B	19931223		AU 9061679	A
					US 5351059	A	19940927	△	WO 90JP1064	A
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									WO 90JP1064	A
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					NL 8900056	A	19900801			
					US 5161886	A	19921110	△-	US 90463696	A
									US 91798264	A
					EP 378271	B1	19960403		EP 90200044	A
					DE 69026288	E	19960509		DE 626288	A
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					KR 147049	B1	19980915		KR 90201	A
					US 5161886	C1	20011030		US 90463696	A
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110	Adaptive in-vehicle route guidance system	EP 372840 A The i	SUMITOMO ELE	DOI Y&IKEDA	EP 372840	A	19900613		EP 89312522	A
					US 5031104	A	19910709		US 89442782	A
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					EP 372840	B1	19951102		EP 89312522	A
					DE 68924697	E	19951207		DE 624697	A
									EP 89312522	A
					JP 10104013	A	19980424	△	JP 8988441	A
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111	Vehicle navigation system - directs course	WO 9001679 A Rout	AISIN AW CO	NABA A&NIMU	WO 9001679	A	19900222	○		
					EP 380673	A	19900808		EP 89900883	A
					US 5067082	A	19911119		US 80408504	A
					EP 380673	A4	19920909		EP 89900883	A
112	Road drawing system for navigation apparat	EP 355232 A The r	AISIN AW CO	NANBA A&NIN	EP 355232	A	19900228		EP 88312449	A
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113	Vehicle navigation appts. using dead reck	EP 349977 A The v	MAZDA MOTOR	KAKIHARA M&	EP 349977	A	19900110		EP 89112192	A
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					DE 68904484	E	19930304		DE 604484	A
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									US 91686288	A
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115	Navigation system for motor vehicle e.g. c	WO 8906342 A A cu	AISIN AW CO	NANBA A&YOK	WO 8906342	A	19890713		WO 88JP1302	A
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					US 5043902	A	19910827		US 89408503	A
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					EP 349652	B1	19960327		WO 88JP1302	A
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116	Display unit of navigation system - has da	WO 8906341 A An o	AISIN AW CO	MOROTO S&NA	WO 8906341	A	19890713		WO 88JP1299	A
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									US 91666485	A
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					JP 10074043	A	19980317	△+	JP 88178426	A
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117	Helmet mounted navigational HD - has smal	EP 315742 A A nav	DEUT AEROSPA	BENEDIKTER	EP 315742	A	19890517		EP 88113653	A
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					US 4930888	A	19900605	○	US 88265217	A
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118	Travel path display appts. for automobile	EP 302736 A The d	HONDA GIKEN	IIHOSHI A&N	EP 302736	A	19890208		EP 88307240	A
					US 4963864	A	19901016		US 88224985	A
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					DE 3871644	G	19920709		DE 3871644	A
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					US 5170165	A	19921208	◎	US 88224985	A
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					CA 1326273	C	19940118		CA 572942	A
119	Location system for moving object e.g. rob	EP 296016 A A mov	COMMISSARIAT	LERAT B&	EP 296016	A	19881221		EP 88401368	A
					FR 2616533	A	19881216			
					US 4840445	A	19890620		US 88204674	A
120	Travel route determination for land vehic	EP 323485 A Proce	BOSCH GMBH R	NEUKIRCHNE	DE 3719017	A	19881215		DE 3719017	A
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					EP 323485	B1	19920826		EP 88904495	A
									WO 88DE329	A
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PATENT

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Applicant: Shinya Adachi et al.

Serial No.: 10/075,208

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Docket No.: 34409

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with Rule 56, applicants are aware of the publications listed in the enclosed copy of Patent Office Form 1449. A copy of each of the publications is enclosed herewith.

Respectfully submitted,

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Suzanne B. Gagnon
Name of Attorney for Applicant(s)

August 20, 2002 Suzanne B. Gagnon
Date Signature of Attorney

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		APPLICANT: Shinya Adachi et al.	
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INFORMATION DISCLOSURE CITATION
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